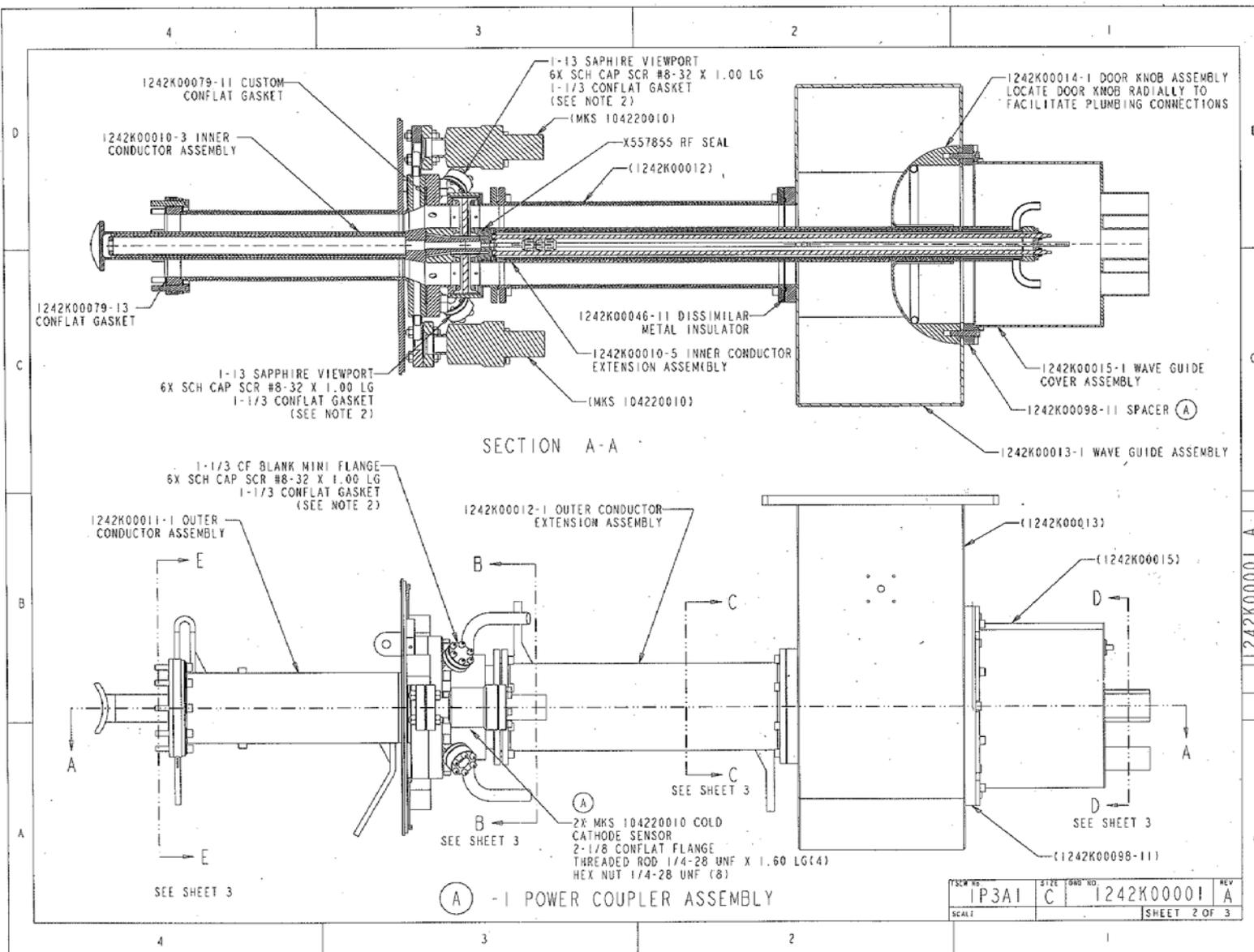


# E-Gun Conversion FPC Drawings

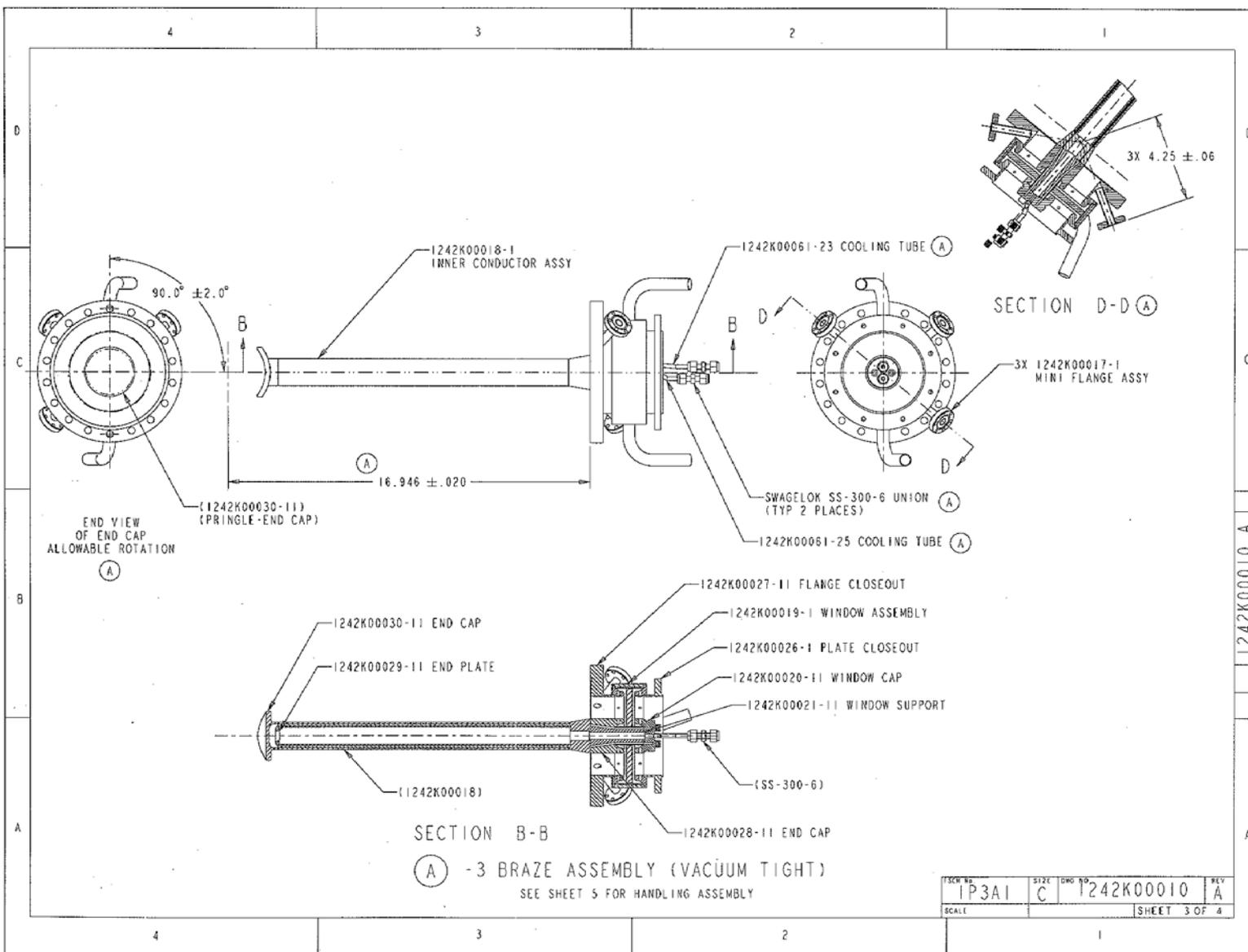
Overall Draft Schedule

# FPC Assembly

## Air & Vacuum Sides

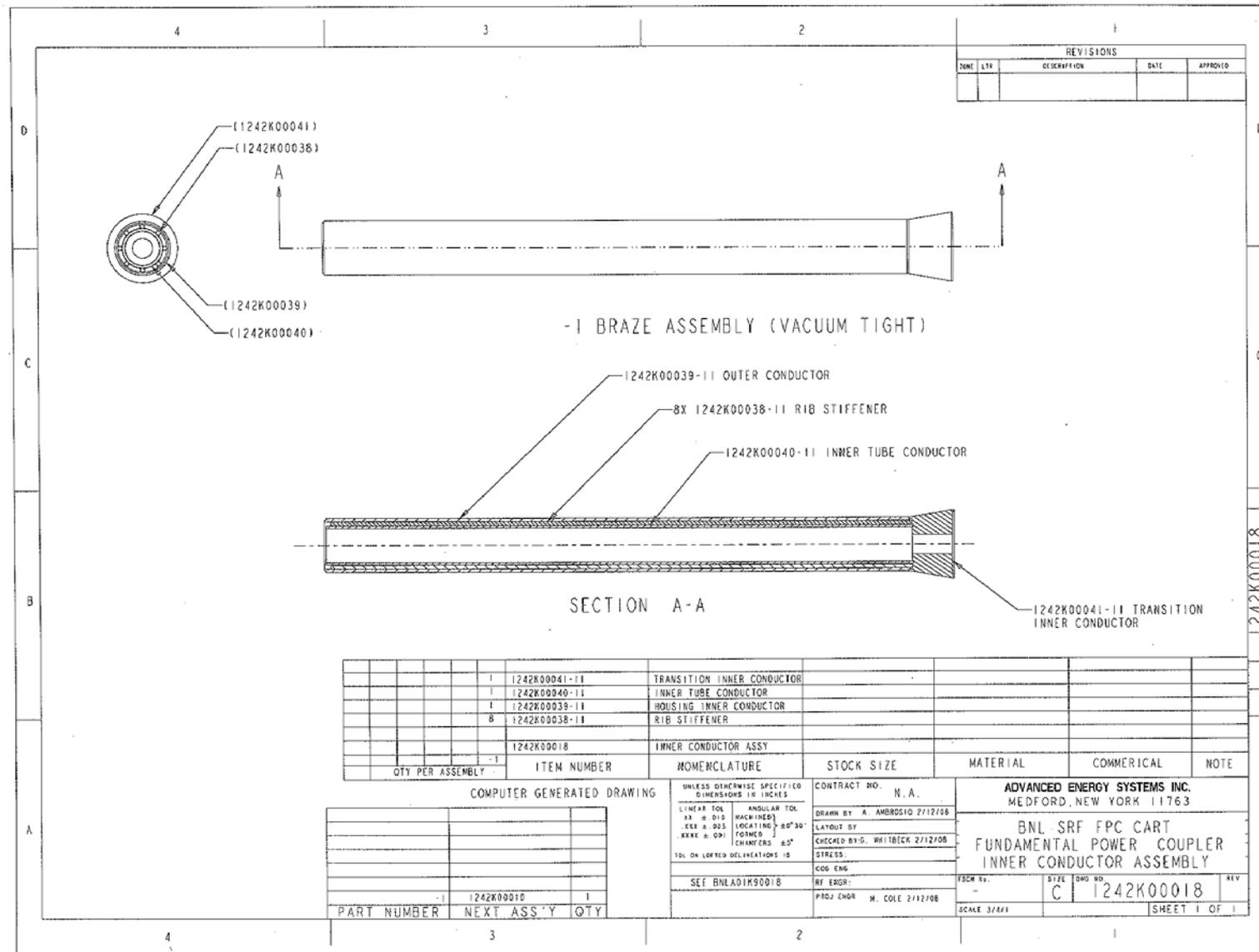


# FPC Window Assembly



# FPC Inner Conductor

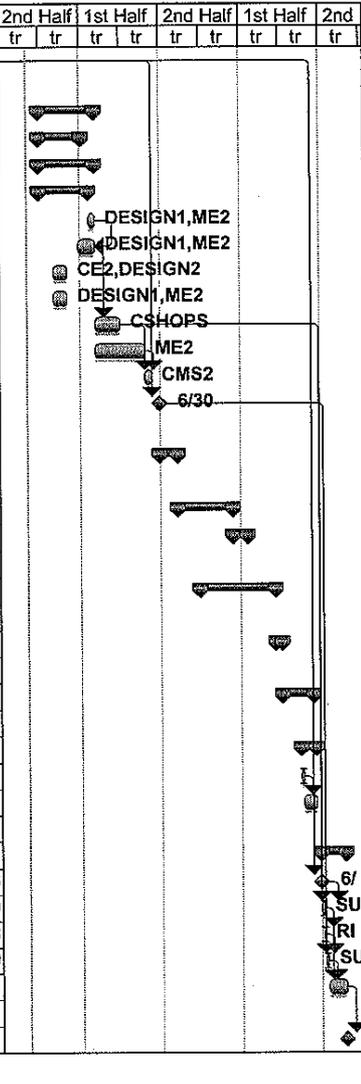
## Vacuum Side





# Early Draft Schedule

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	2nd Half	1st Half	2nd Half	1st Half	2nd
							tr	tr	tr	tr	tr
1	Project start - CAP Concept with HTSS correction & FPC Adjustment	0 days	Wed 4/9/14	Wed 4/9/14		22,5,115					
2											
3	Develop concept for "Cathode" replacement, HTSS & FPC schemes	82 days	Thu 10/1/15	Wed 2/3/16							
4	Choke Exclusion Concept design, drawings approved	61 days	Thu 10/1/15	Mon 1/4/16							
8	HTSS Repair Effort	82 days	Thu 10/1/15	Wed 2/3/16							
11	FPC Adjustment Effort (away from BT centerline only)	72 days	Thu 10/1/15	Wed 1/20/16							
15	Cleanroom process UHV components	10 days	Thu 1/21/16	Wed 2/3/16	14,13,7	16FF					
16	Design stand extension concrete block at IP2	24 days	Tue 12/29/15	Wed 2/3/16	15FF	19					
17	Design to move 2-4K recovery heat exchanger into cryostat	20 days	Mon 11/2/15	Wed 12/2/15	6FF	66					
18	Reroute in series Thermal Transition Flanges & HTSS	20 days	Mon 11/2/15	Wed 12/2/15	6FF						
19	Components fabricated in Shops	40 days	Thu 2/4/16	Thu 3/31/16	7,10,13,16	21,116					
20	Outside procured items ordered & received	80 days	Thu 2/4/16	Thu 5/26/16	7,10,13	21					
21	All components inspected and test fit	10 days	Fri 5/27/16	Fri 6/10/16	19,20	71,72					
22	e-Gun ERL testing complete / truncated	0 days	Thu 6/30/16	Thu 6/30/16	1	8FS+10 days					
23											
24	Removing gun from blockhouse	26 days	Thu 6/30/16	Mon 8/8/16							
28											
29	Gain access to / & remove the HTSS	88 days	Tue 8/9/16	Wed 12/14/16							
57	Choke Cover Installation & FPC Adjustment	20 days	Thu 12/15/16	Mon 1/16/17	56						
62											
63	Install and test HTSS upgrade	117 days	Thu 9/29/16	Tue 3/21/17							
83											
84	Installation of Heat Exchanger in Gun Vac Vessel	10 days	Wed 3/22/17	Tue 4/4/17							
90											
91	HTSS Testing & Rigging Gun back into ERL Blockhouse	50.5 days	Wed 4/5/17	Thu 6/15/17							
109											
110	RF Testing in ERL Blockhouse	23 days	Wed 5/17/17	Tue 6/20/17							
111	Cavity conditioning	3 days	Wed 5/17/17	Mon 5/22/17	107	112					
112	RF testing of ERL e-Gun / LEReC Booster cavity	20 days	Mon 5/22/17	Tue 6/20/17	111						
113											
114	Rigging & plumbing Gun/Booster into the LEReC at IP2	39 days	Fri 6/30/17	Fri 8/25/17	106						
115	Physics Run 2016/ 2017 ends	0 days	Fri 6/30/17	Fri 6/30/17	1	116					
116	Move stand/block to IP2 and survey into place	2 days	Fri 6/30/17	Wed 7/5/17	19,115	117,119					
117	Transport Gun to LEReC @ RHIC IP2 & place on stand	2 days	Thu 7/6/17	Fri 7/7/17	116	118					
118	Place on stand and survey into place	5 days	Mon 7/10/17	Fri 7/14/17	22FS+10 days,	119					
119	Connect to IP2 Cryo system	30 days	Mon 7/17/17	Fri 8/25/17	118,116	121					
120											
121	Project complete	0 days	Fri 8/25/17	Fri 8/25/17	119						



Includes Choke Exclusion, HTSS Repair Attempt & FPC Adjustment